

R E M A R K S

Claims 1 and 2 have been amended. New Claims 3-6 have been added. Claims 1-6 are now pending in the application.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version with Markings to Show Changes Made."

In view of the foregoing amendments and remarks, allowance of all claims in the application is respectfully requested.

Respectfully submitted,



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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the claims:**

Claims 1 and 2 have been amended as follows:

1. (Amended) A polymer membrane for the separation of components of natural gas, that comprises an asymmetric hollow fiber of polyethersulphone for the purposes of pervaporation, treated with mixtures of liquids comprising [(]C<sub>2</sub>H<sub>5</sub>OH and X[)], in which X [=] is toluene, acetone, or dimethylformamide, with a content of X equal to [=] 7 - 12% [() by volume ()] in the mixture, subsequently treated with a solution at 2.5% [() by volume ()] of urethanosiloxane in isopropylic alcohol.

2. (Amended) A polymer membrane [,] according to claim 1, characterised in that a hollow fibre membrane of polyethersulphone is used, modified with a gaseous mixture comprising F<sub>2</sub> and HF [(F<sub>2</sub> - HF) : inert gas] with content of [(F<sub>2</sub> - HF)] F<sub>2</sub> and HF in the range of 0-90% [() by volume ()], and concentration of HF in fluorine of 4-6% [() by volume ()].

New Claims 3-6 have been added.